

**EVALUATION OF IRRADIATED FOODS AND OTHER ITEMS WITH
TELEMETRIC DOSIMETERS AND ASSOCIATED METHODS**

Abstract of the Disclosure

Methods for quantifying the irradiation dose received by an item or items, such as food items and medical items, undergoing irradiation-based sterilization, includes the steps of monitoring a selected electronic parameter associated with an 5 economic single use sensor positioned adjacent the item or items and telemetrically relaying data associated with the monitored electronic parameter to a computer. The computer includes a computer program which is configured to determine the radiation dose received by the item or items by correlating the value of the monitored electronic parameter to a corresponding amount of radiation associated with the value. Related 10 sensors and systems are also described.